

FIG. 4

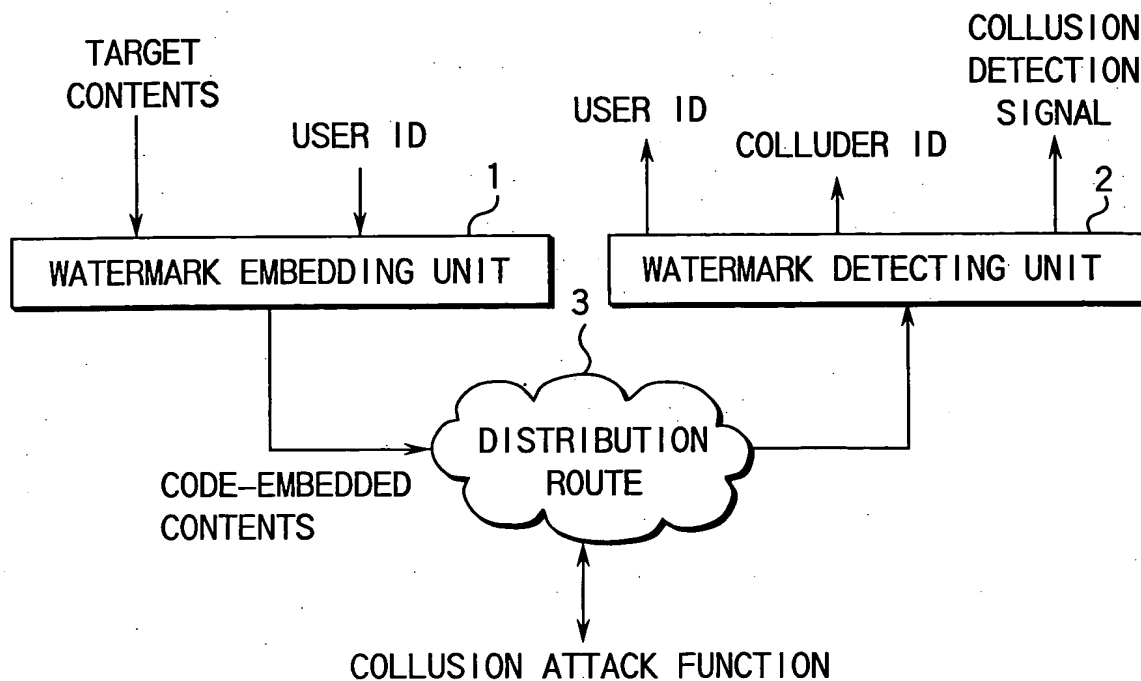


FIG. 5

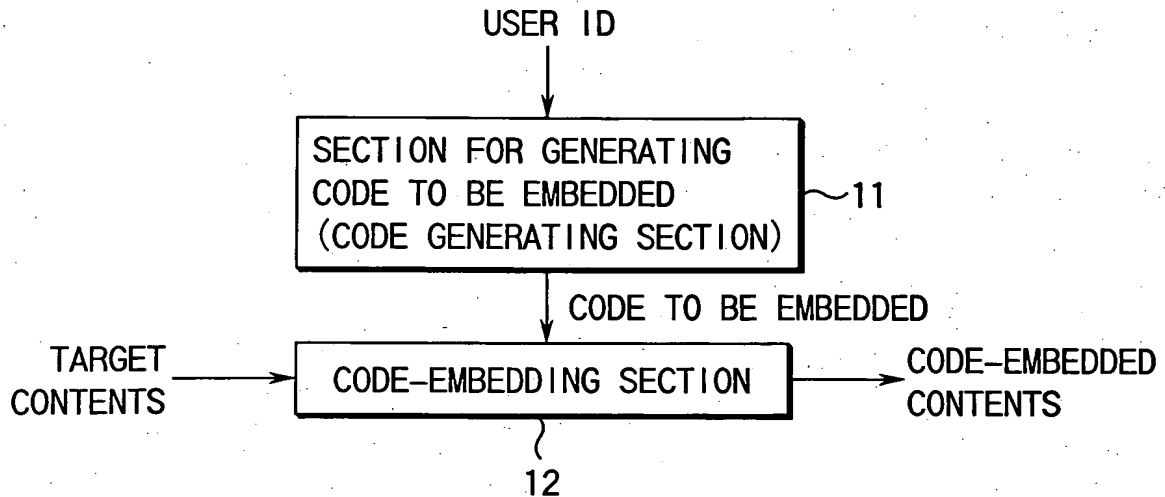


FIG. 6A

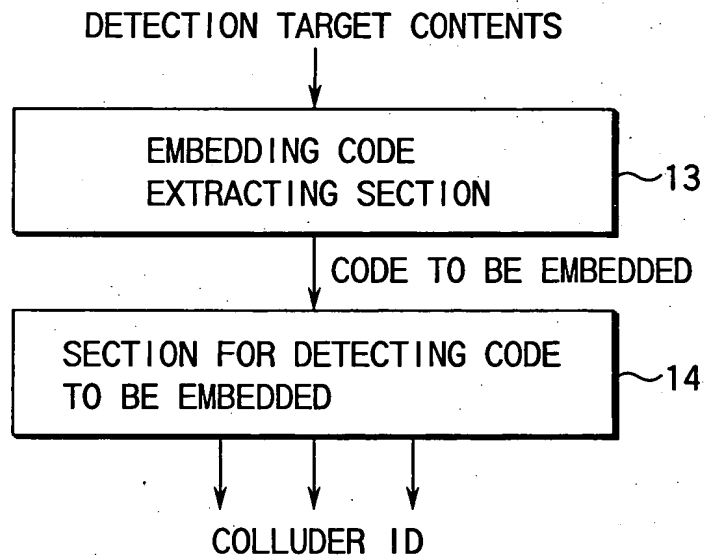
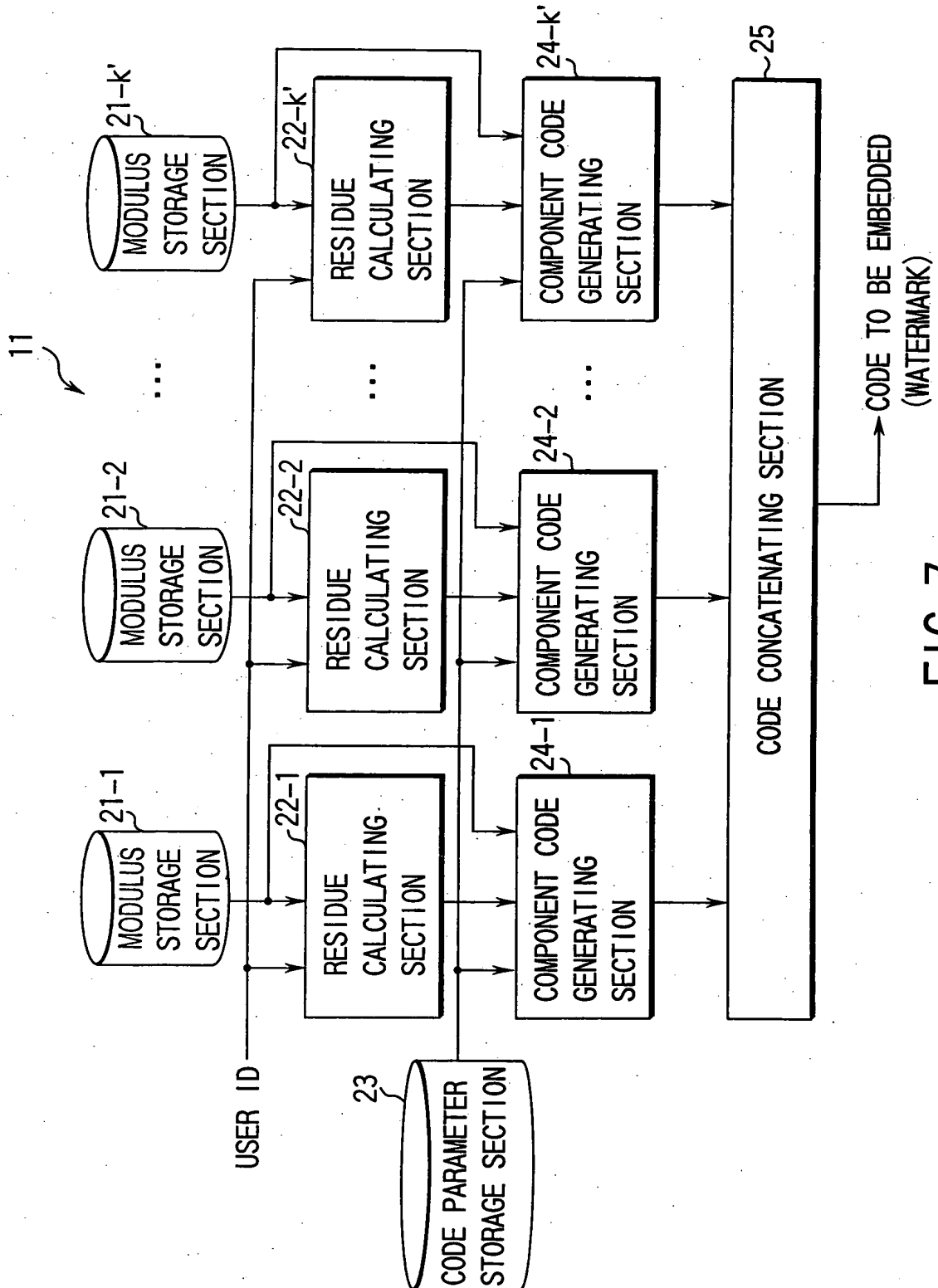


FIG. 6B



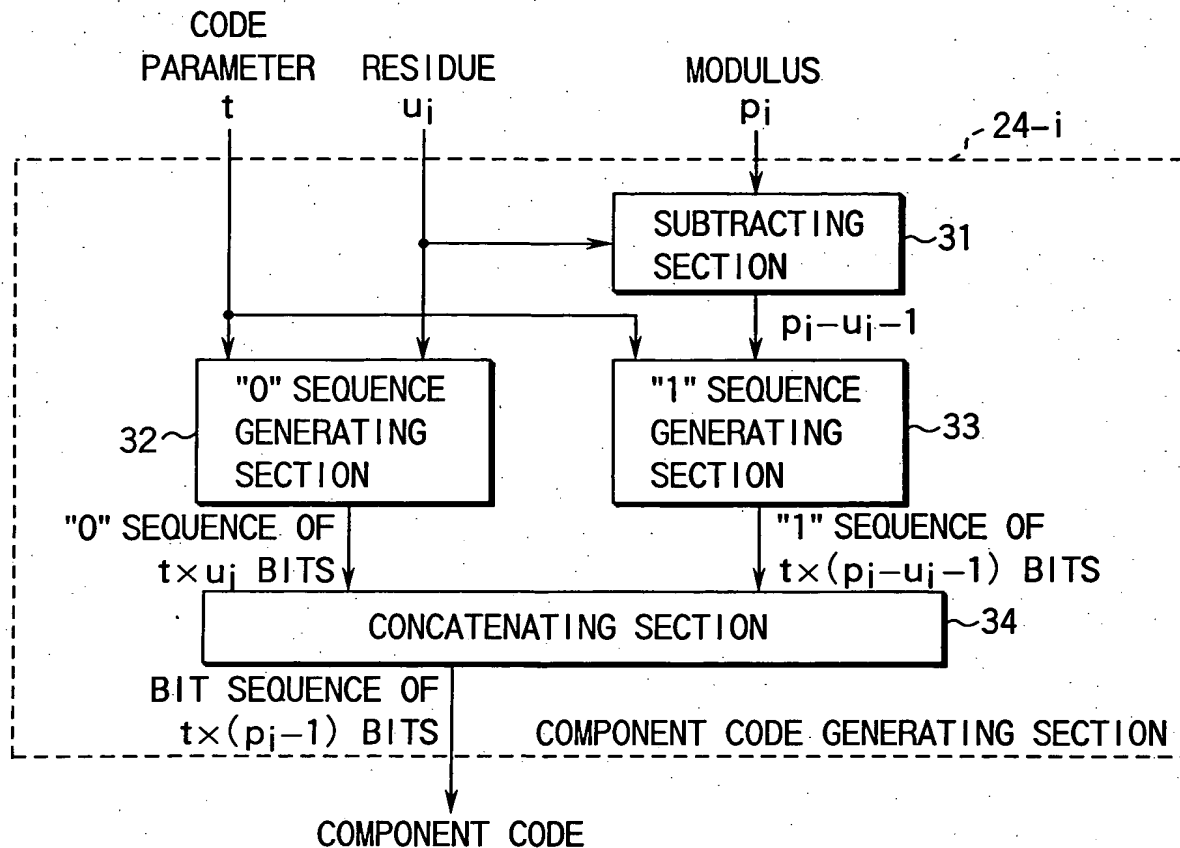


FIG. 8

USER ID	B(0)	B(1)	...	B( $S_{min}$ )	...	B( $S_{max}$ )	...	B( $n-3$ )	B( $n-2$ )
0	1...1	1...1	1...1	1...1	1...1	1...1	1...1	1...1	1...1
1	0...0	1...1	1...1	1...1	1...1	1...1	1...1	1...1	1...1
...									
$S_{min}$	0...0	0...0	0...0	1...1	1...1	1...1	1...1	1...1	1...1
...									
$S_{max}$	0...0	0...0	0...0	0...0	0...0	1...1	1...1	1...1	1...1
...									
$n-2$	0...0	0...0	0...0	0...0	0...0	0...0	0...0	0...0	1...1
$n-1$	0...0	0...0	0...0	0...0	0...0	0...0	0...0	0...0	0...0

FIG. 9

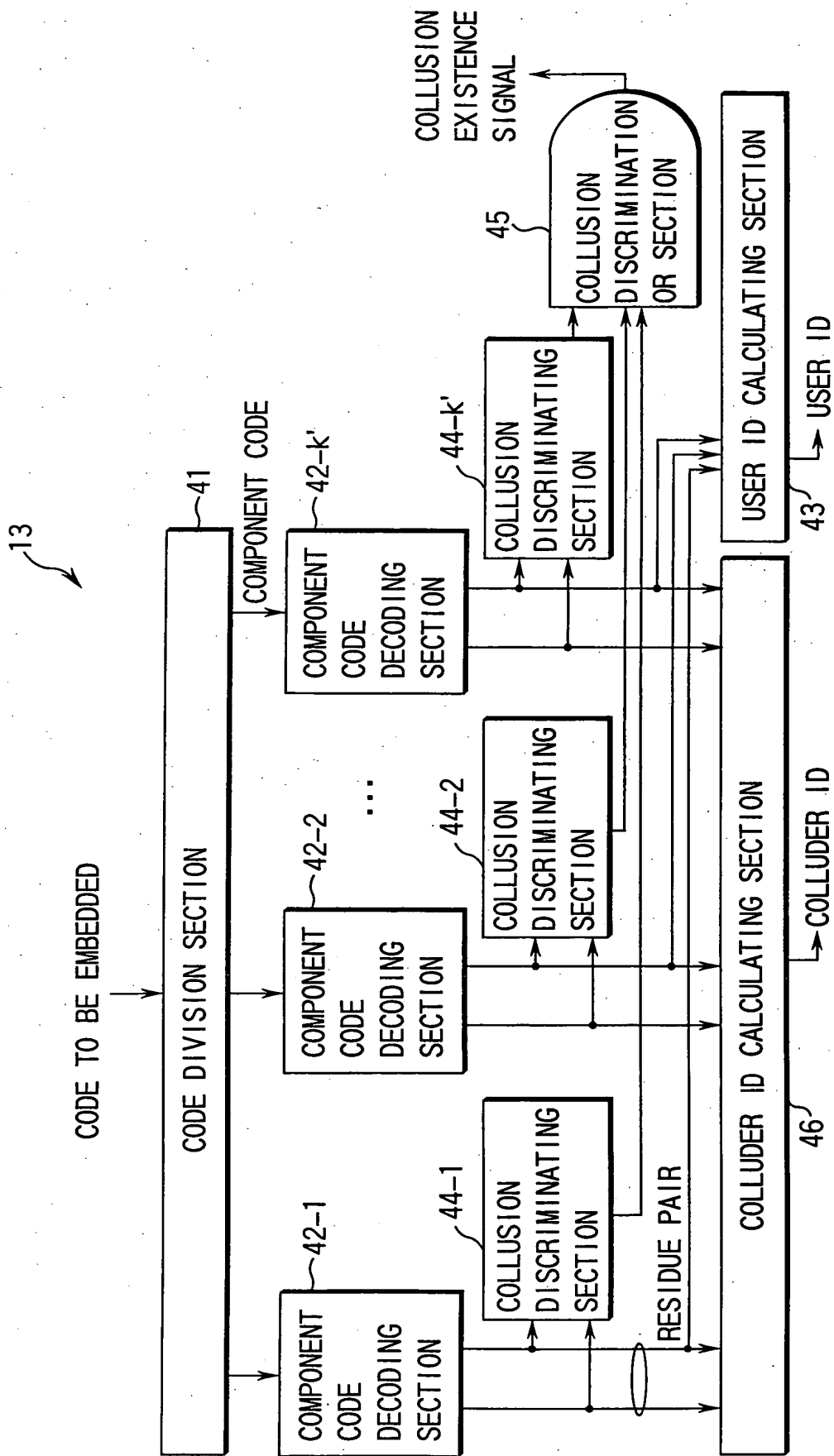


FIG.10

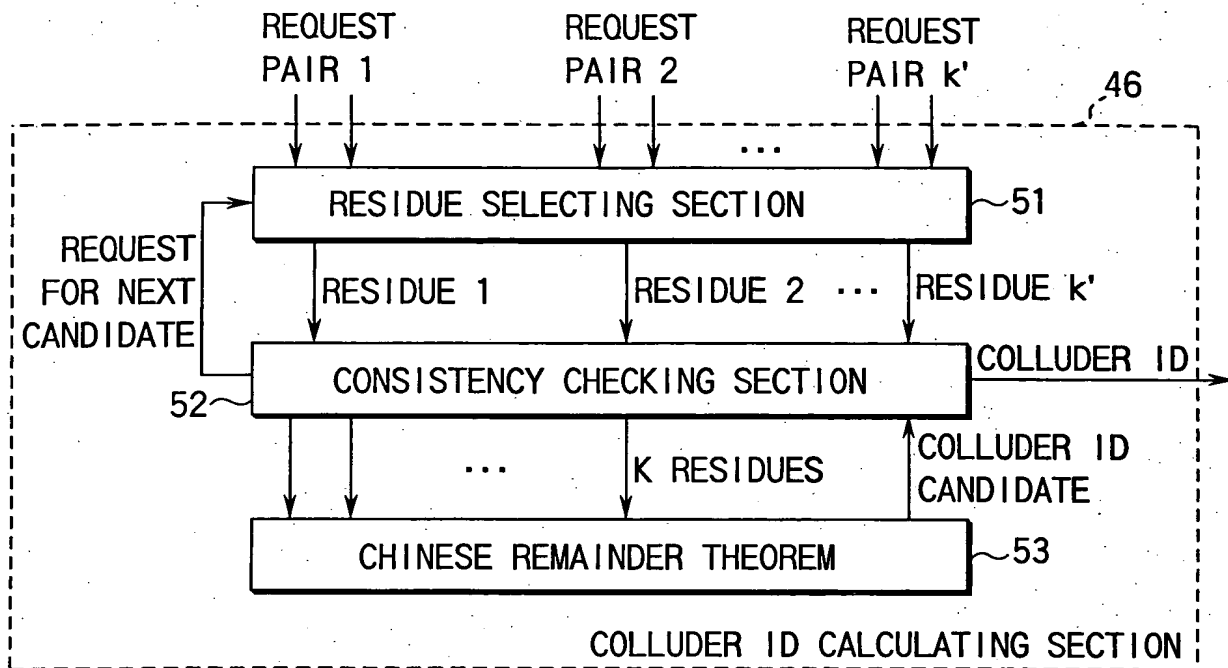


FIG. 11

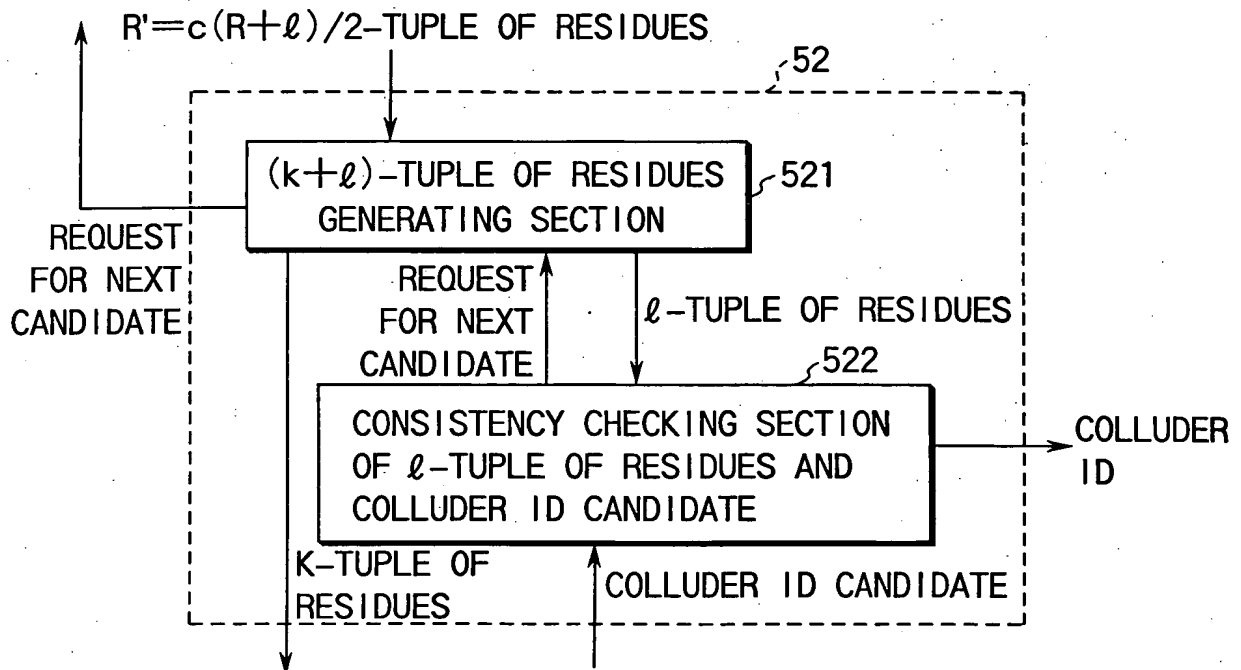


FIG. 12

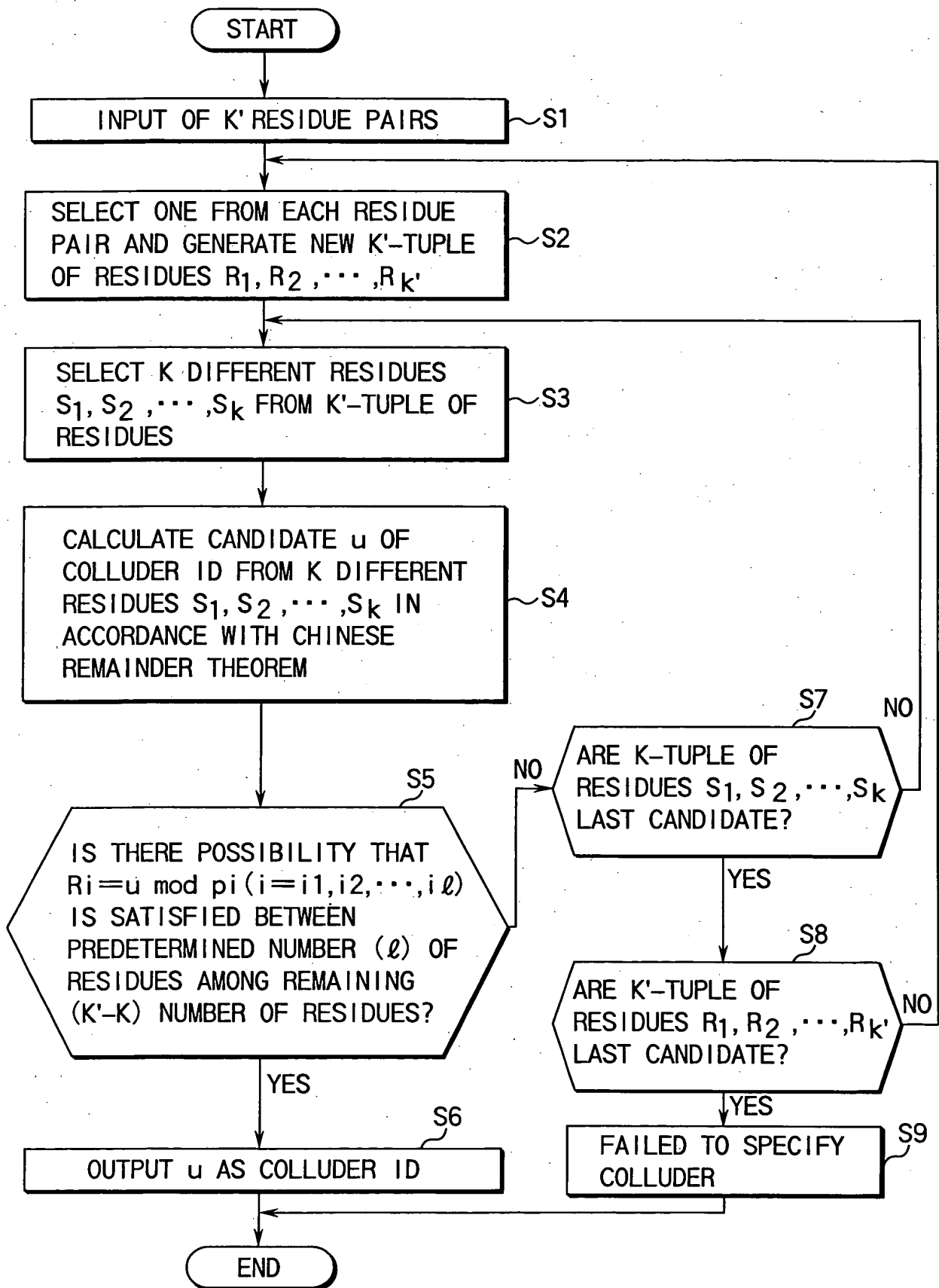


FIG. 13



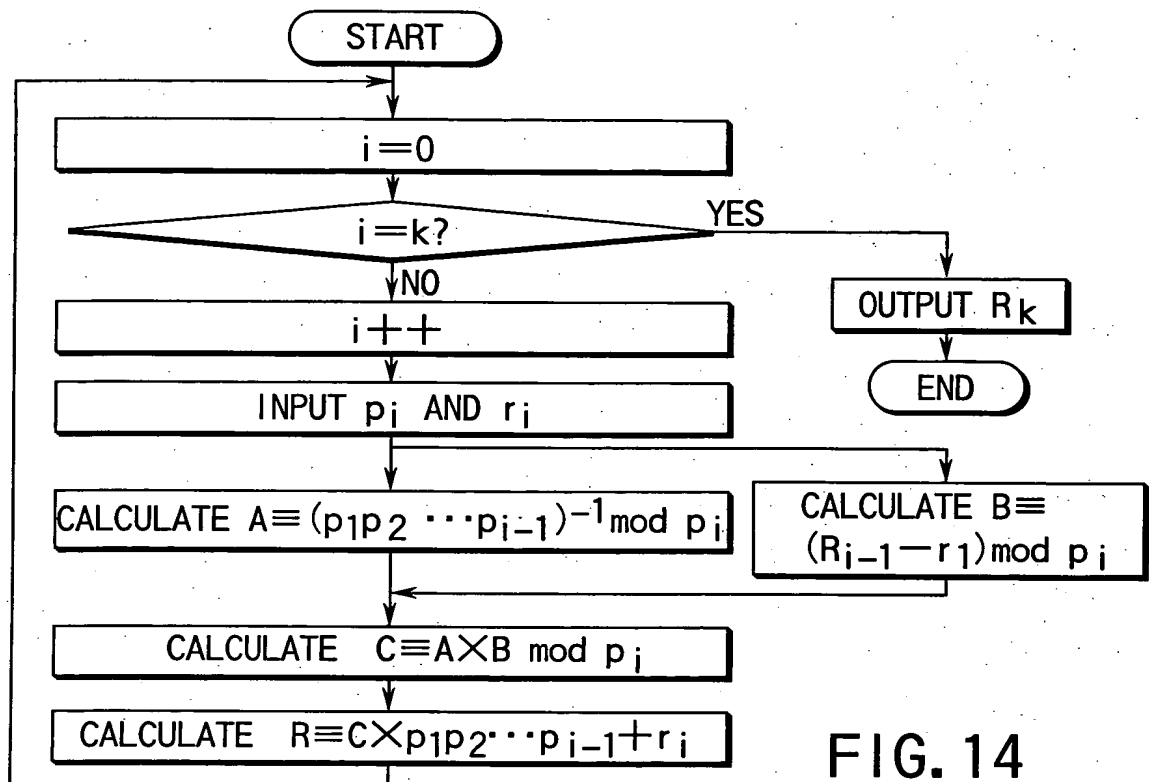


FIG. 14

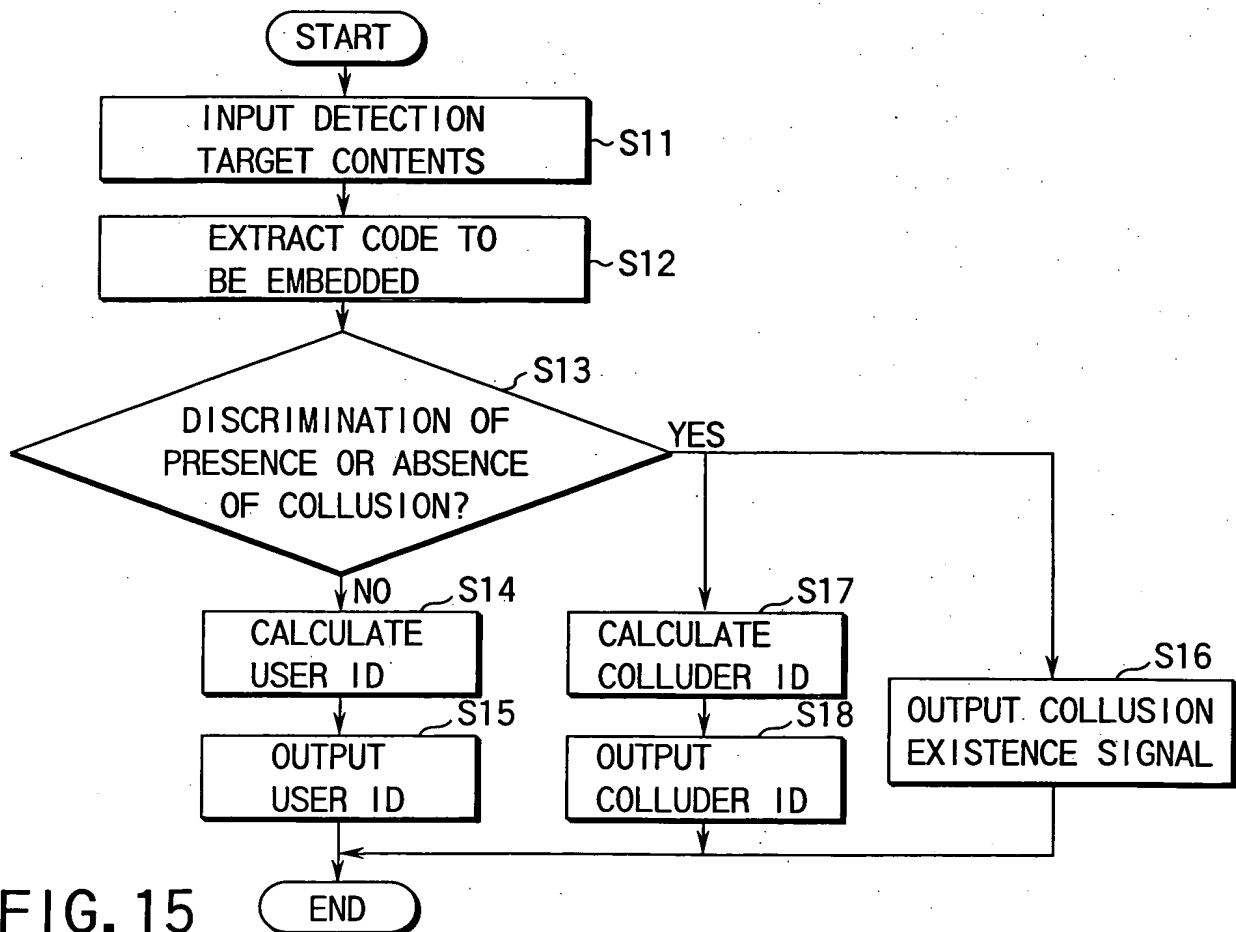


FIG. 15

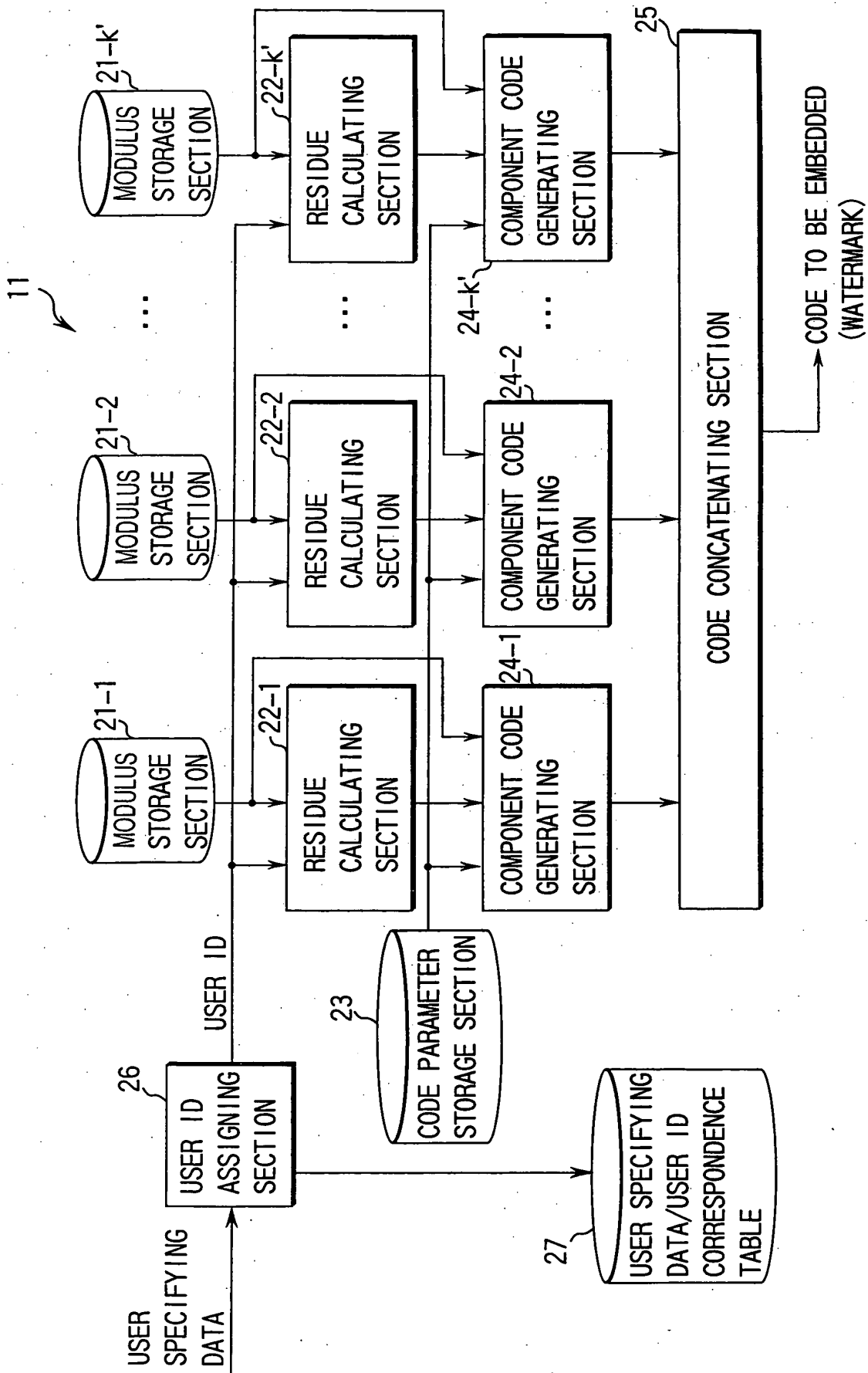


FIG. 16

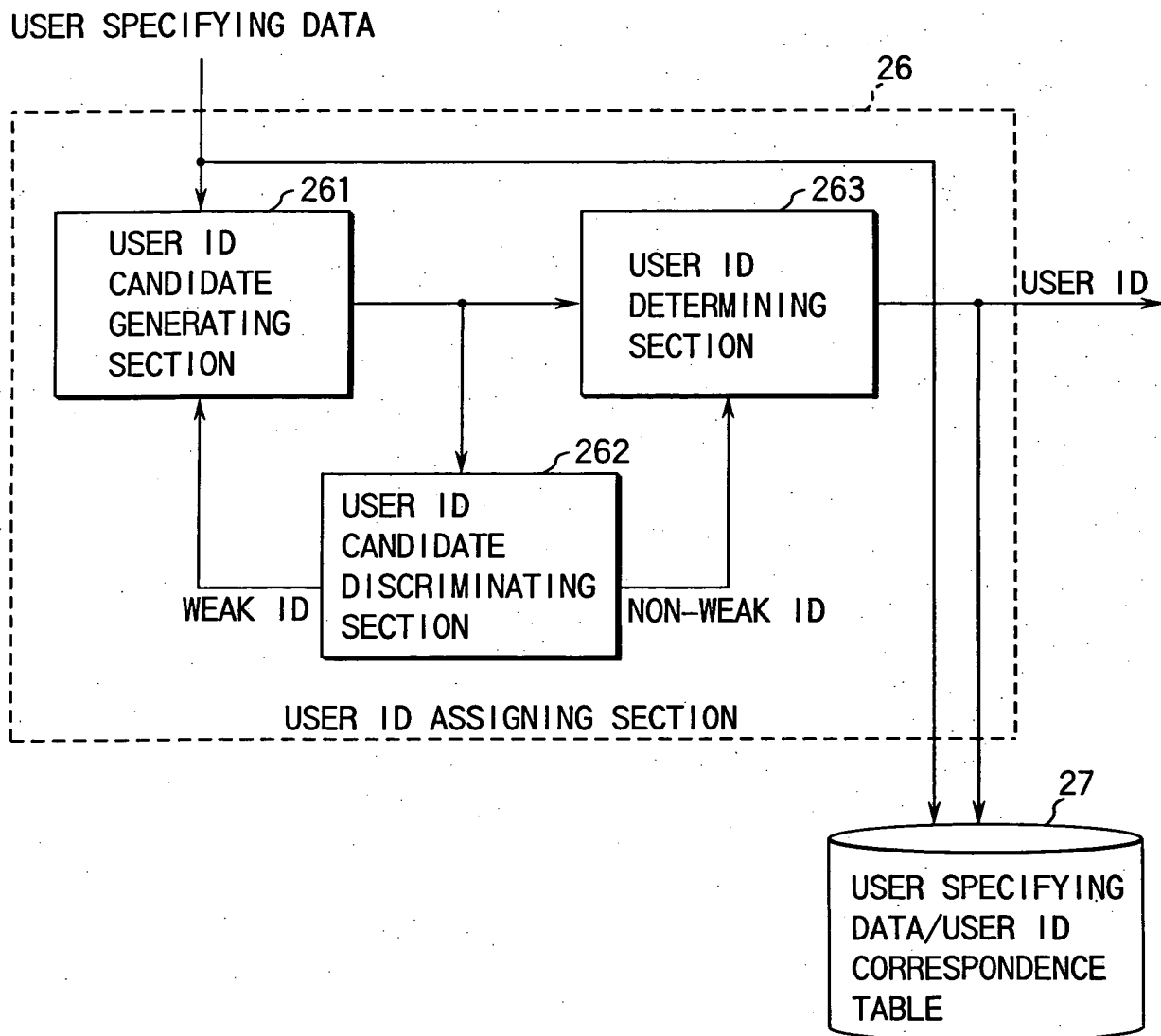


FIG. 17

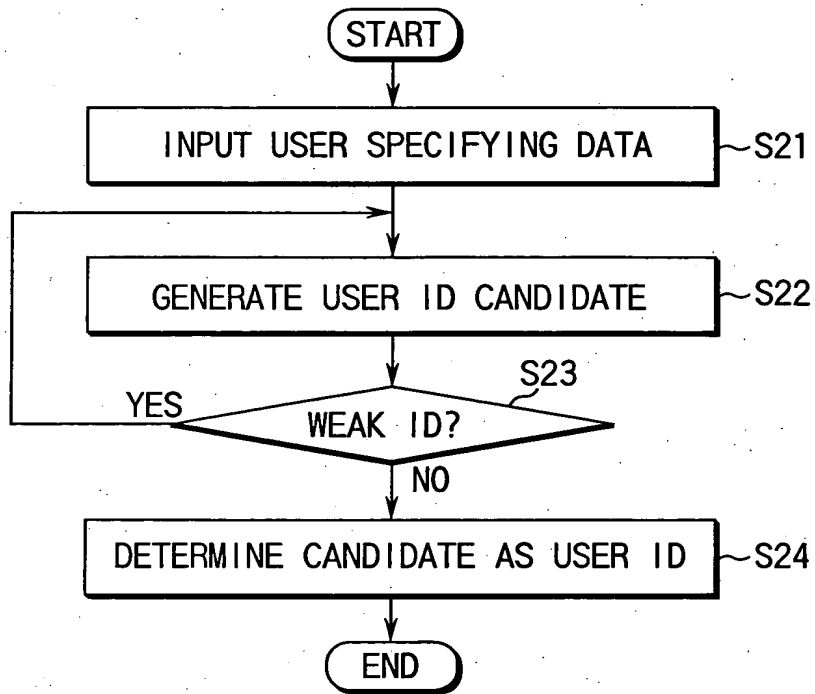


FIG. 18

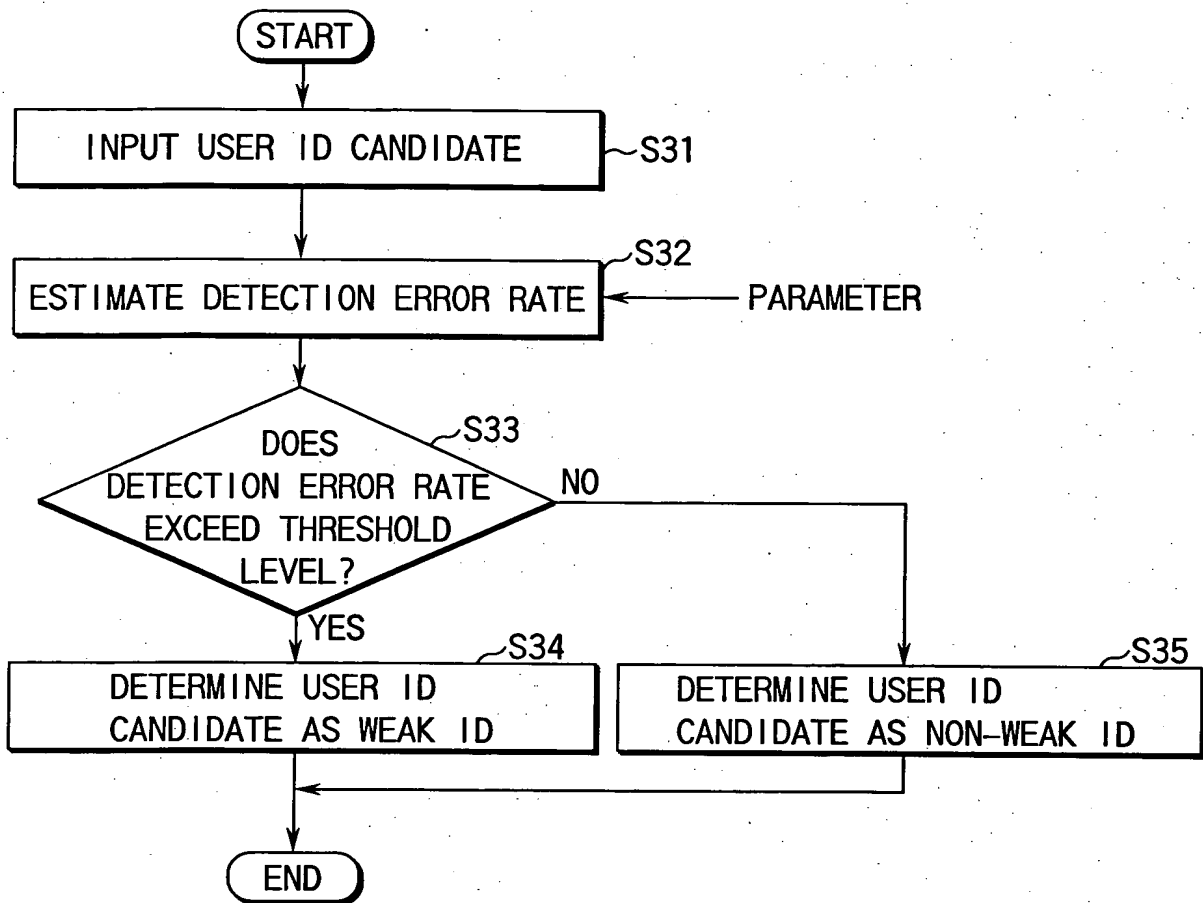
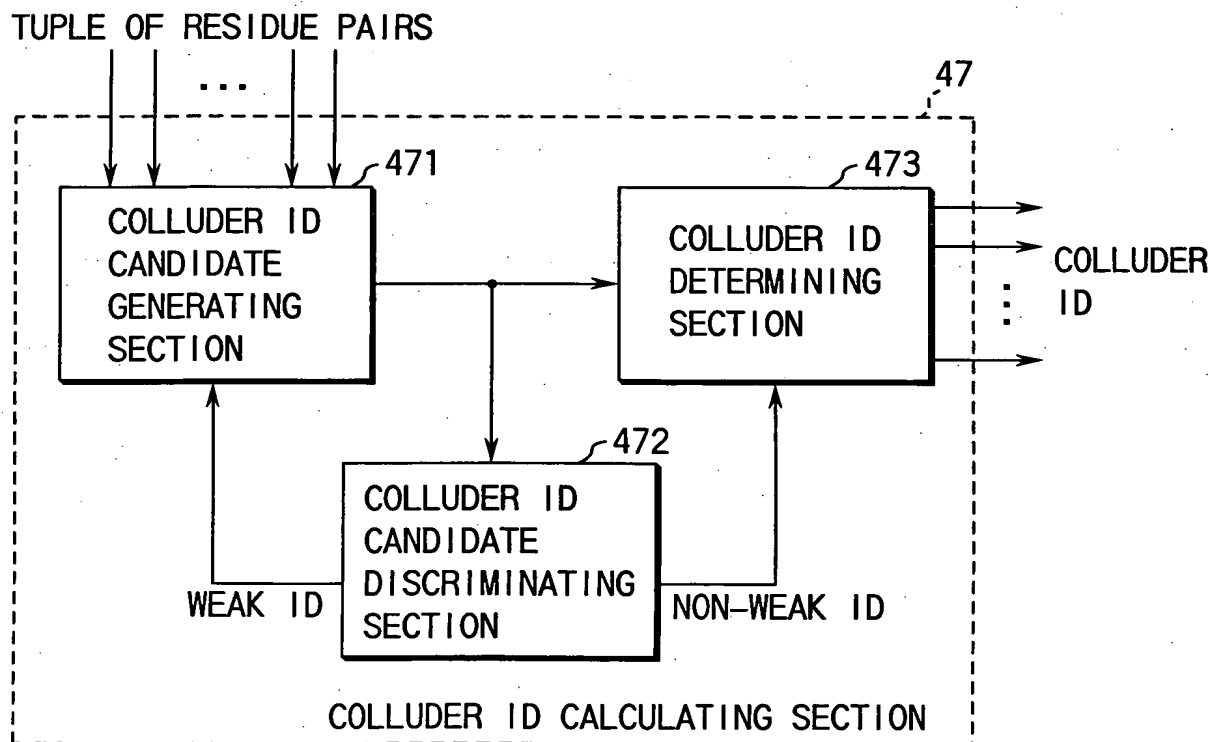
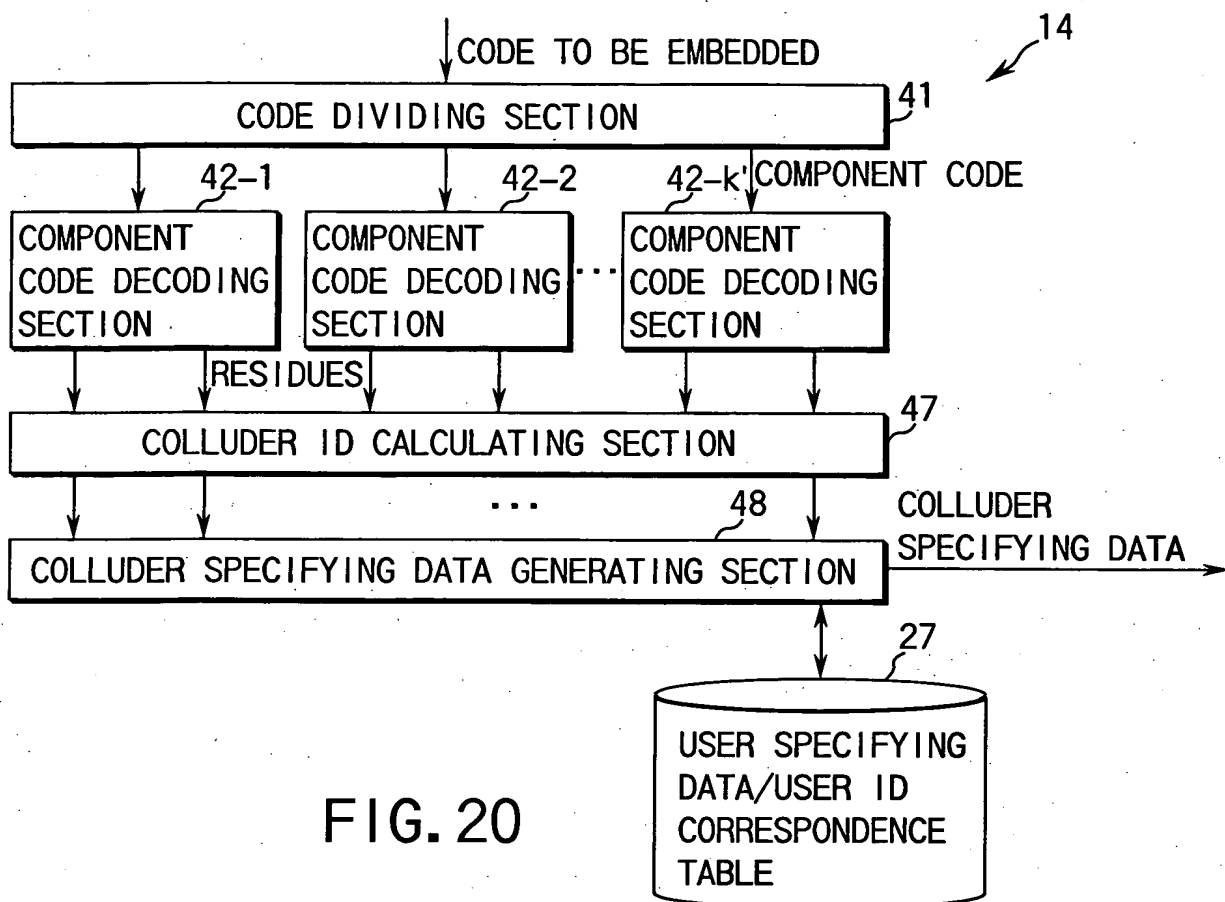


FIG. 19



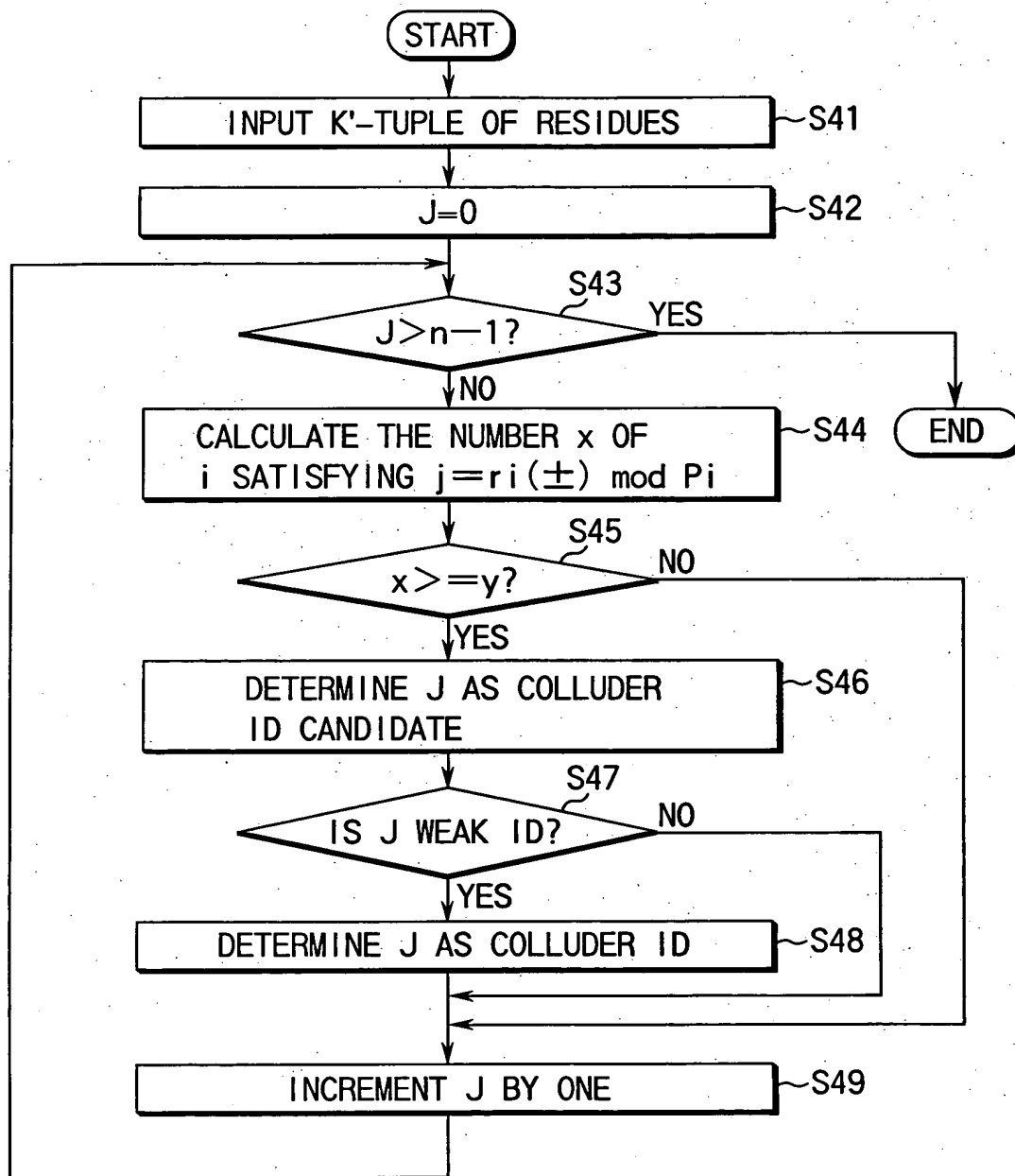


FIG. 22

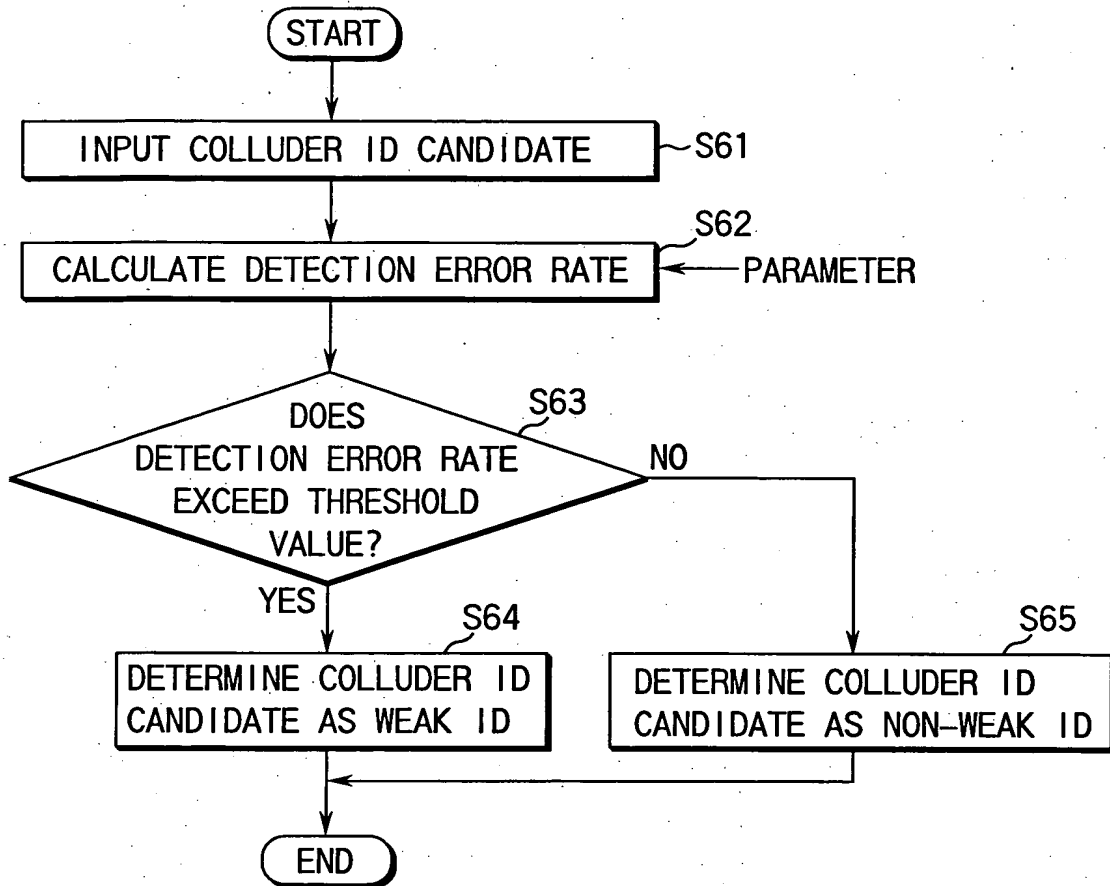


FIG. 23



ACTUAL COLLUDER ID (c=32+0)	DETECTED COLLUDER(ID)	THE NUMBER OF SATISFIED CONGRUENCES	NON-WEAK ID (1) OR NOT (0)
3407	47824	14	1
10640	3407	12	1
15067	30374	12	1
27463	221988	12	1
30374	45380	11	1
44828	44828	10	1
45380	126166	10	1
47824	187728	10	1
52856	2	9	0
54546	52856	9	1
63547	63547	9	1
75058	175612	9	1
126166	11	8	0
133680	54546	8	1
139843	75058	8	1
143941	133680	8	1
163356	143941	8	1
164408	200009	8	1
175612	202508	8	1
187728	212493	8	1
200009	219666	8	1
202508	262123	8	1
204841	19	7	0
207450	223473	7	1
210934	3	6	0
212493	4	6	0
219666	5	6	0
221988	24	6	0
223473	38	6	0
240733	54545	6	0
253316	139843	6	1
262123	163356	6	1

FIG. 24

ACTUAL COLLUDER ID (c=32+32)	DETECTED COLLUDER ID	THE NUMBER OF SATISFIED CONGRUENCES	NON-WEAK ID (1) OR NOT (0)
2089	1	13	0
5258	4	12	0
10732	6	10	0
13913	3	9	0
26395	7	9	0
38321	10	9	0
43641	2	8	0
44196	11	8	0
48052	5	7	0
54224	9	7	0
68847	14	7	0
69827	24	7	0
70170	154324	7	1
78476	164218	7	1
83379	221793	7	1
83993	13	6	0
84045	17	6	0
94102	23	6	0
96272	96272	6	1
105743	172540	6	1
106322	16	5	0
109875	19	5	0
117337	4128	5	0
127964	6384	5	0
134307	59870	5	0
134993	66825	5	0
140009	68847	5	1
142773	76709	5	0
149815	78476	5	1
150357	81504	5	0
154324	83379	5	1
156553	97042	5	0
⋮	⋮	⋮	⋮

FIG. 25

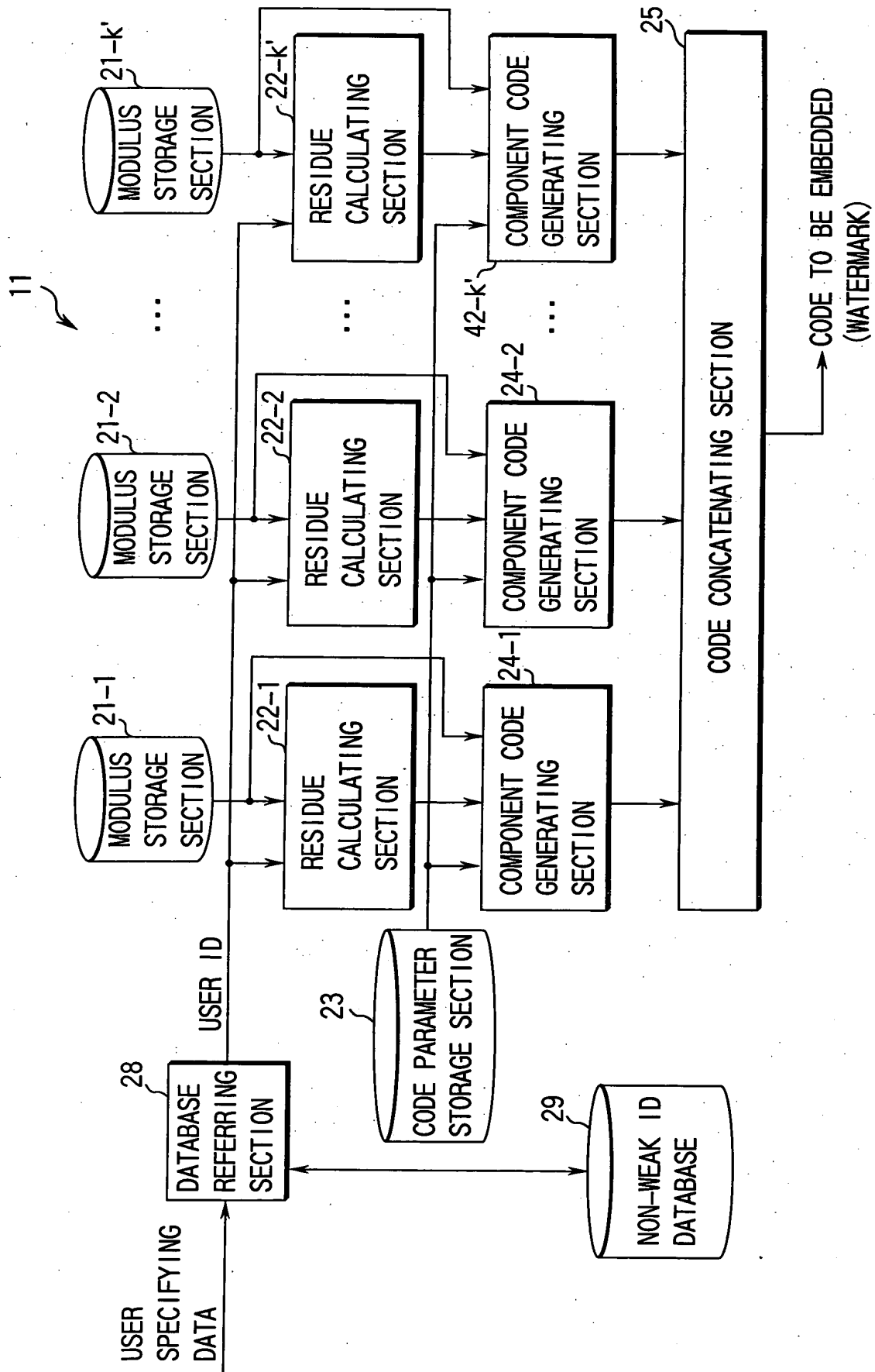


FIG. 26

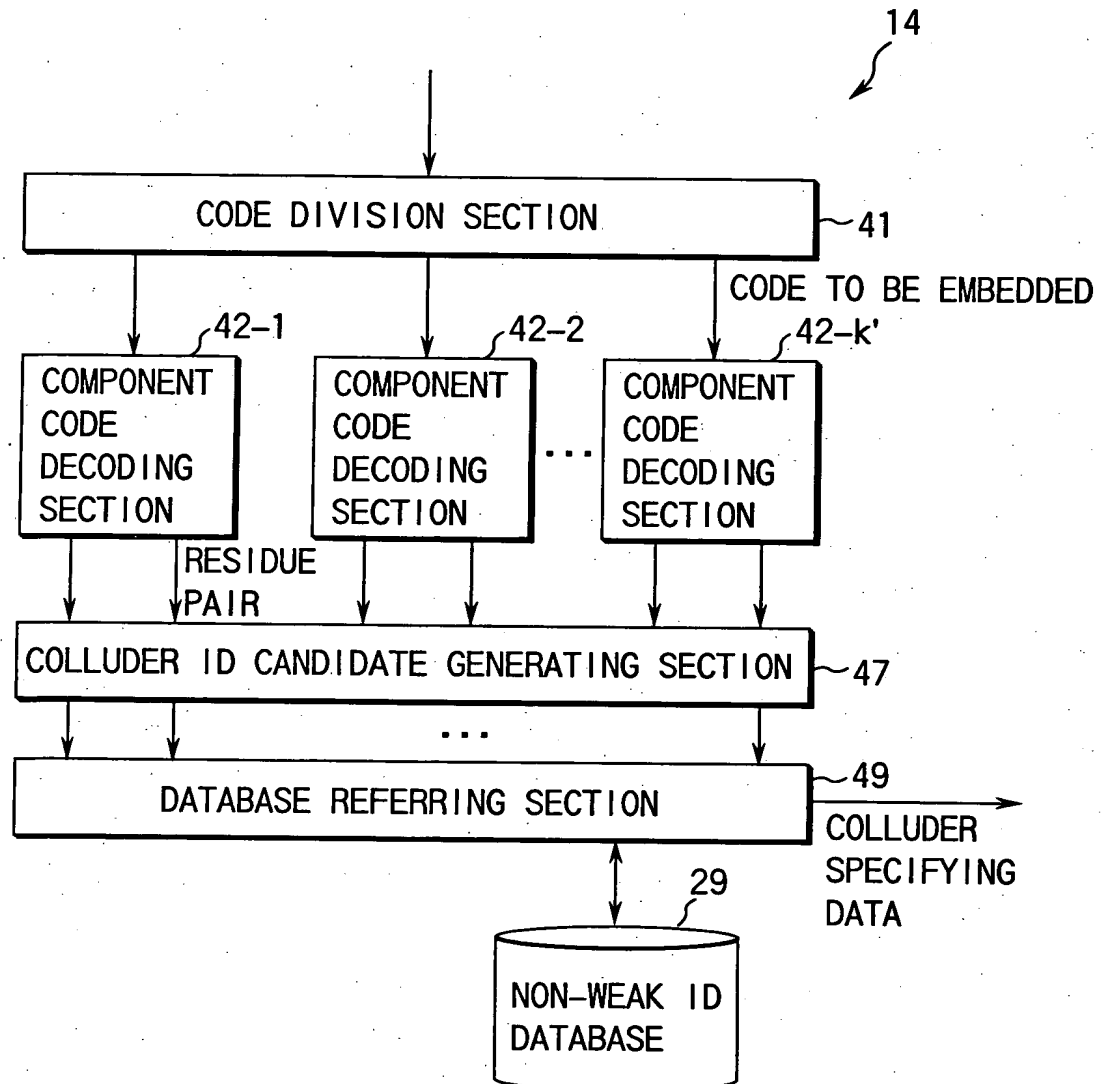


FIG. 27

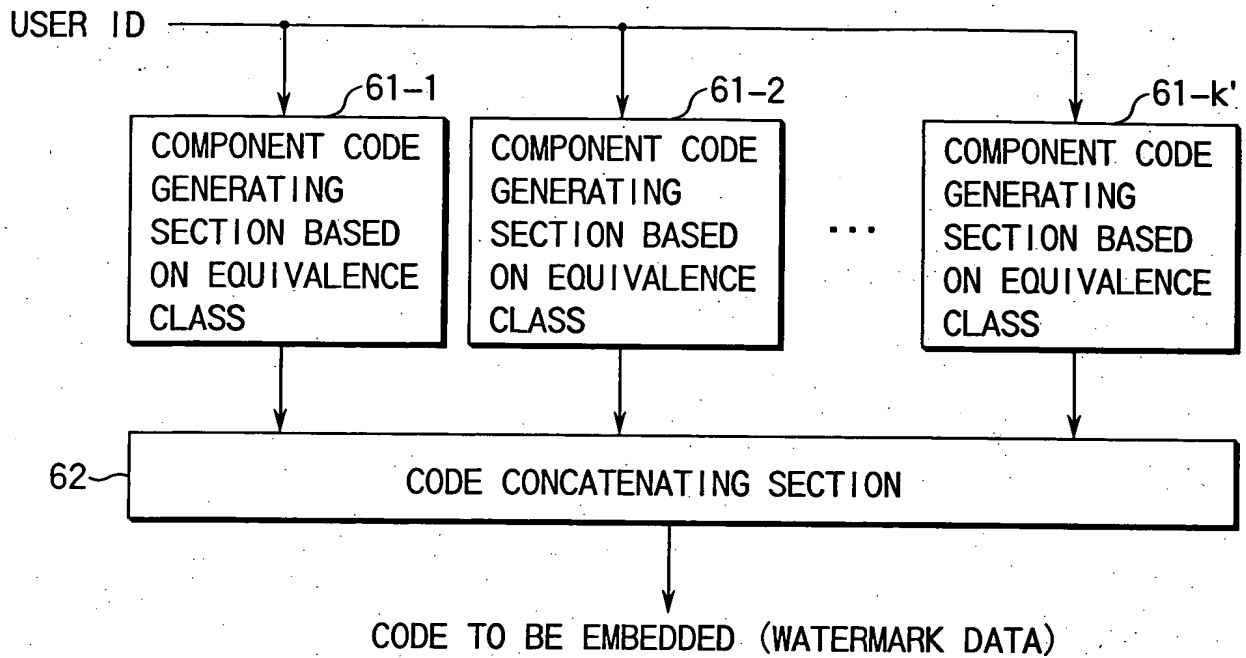


FIG. 28

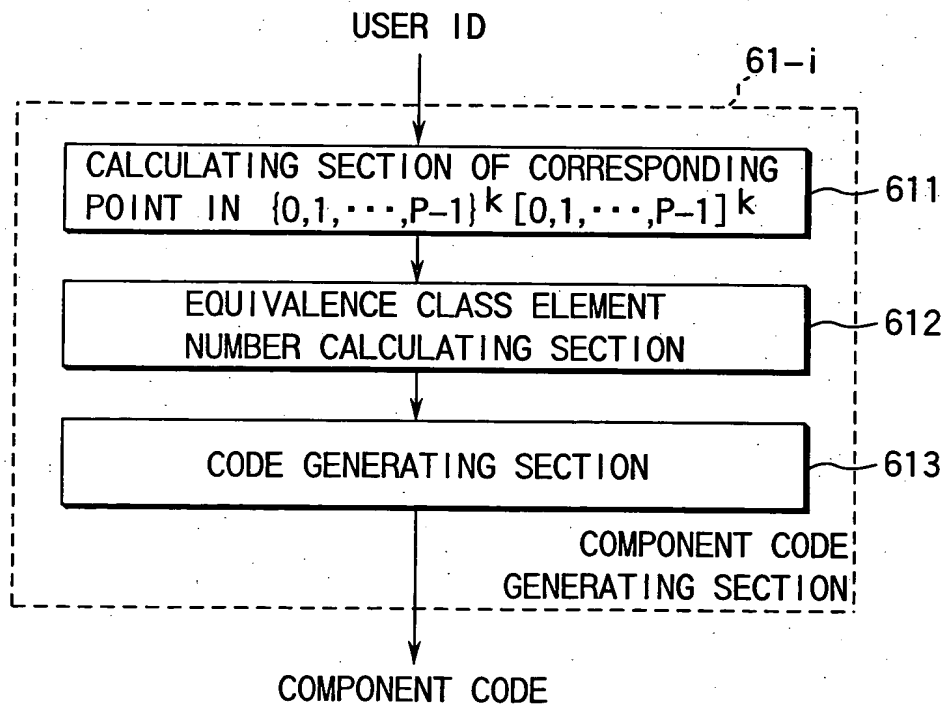


FIG. 29

FIG. 30

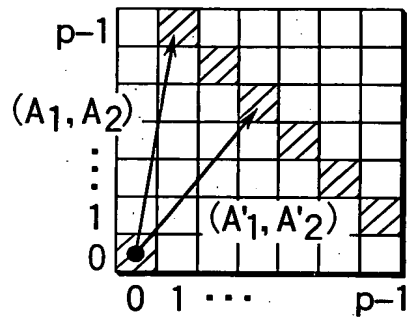


FIG. 31

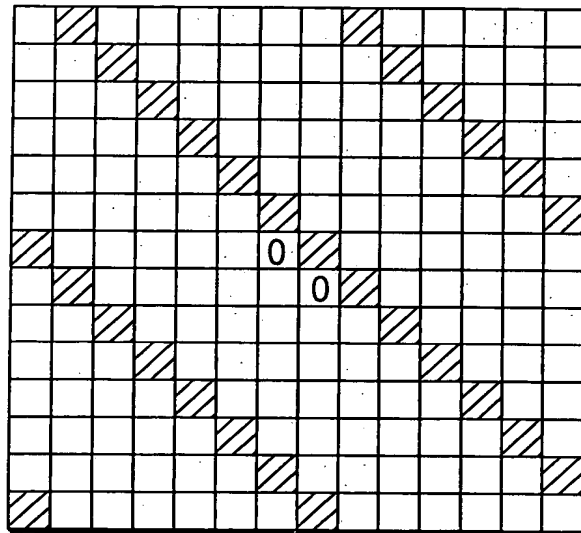
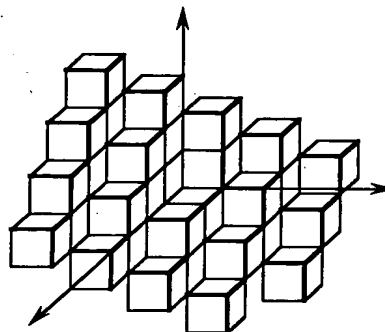
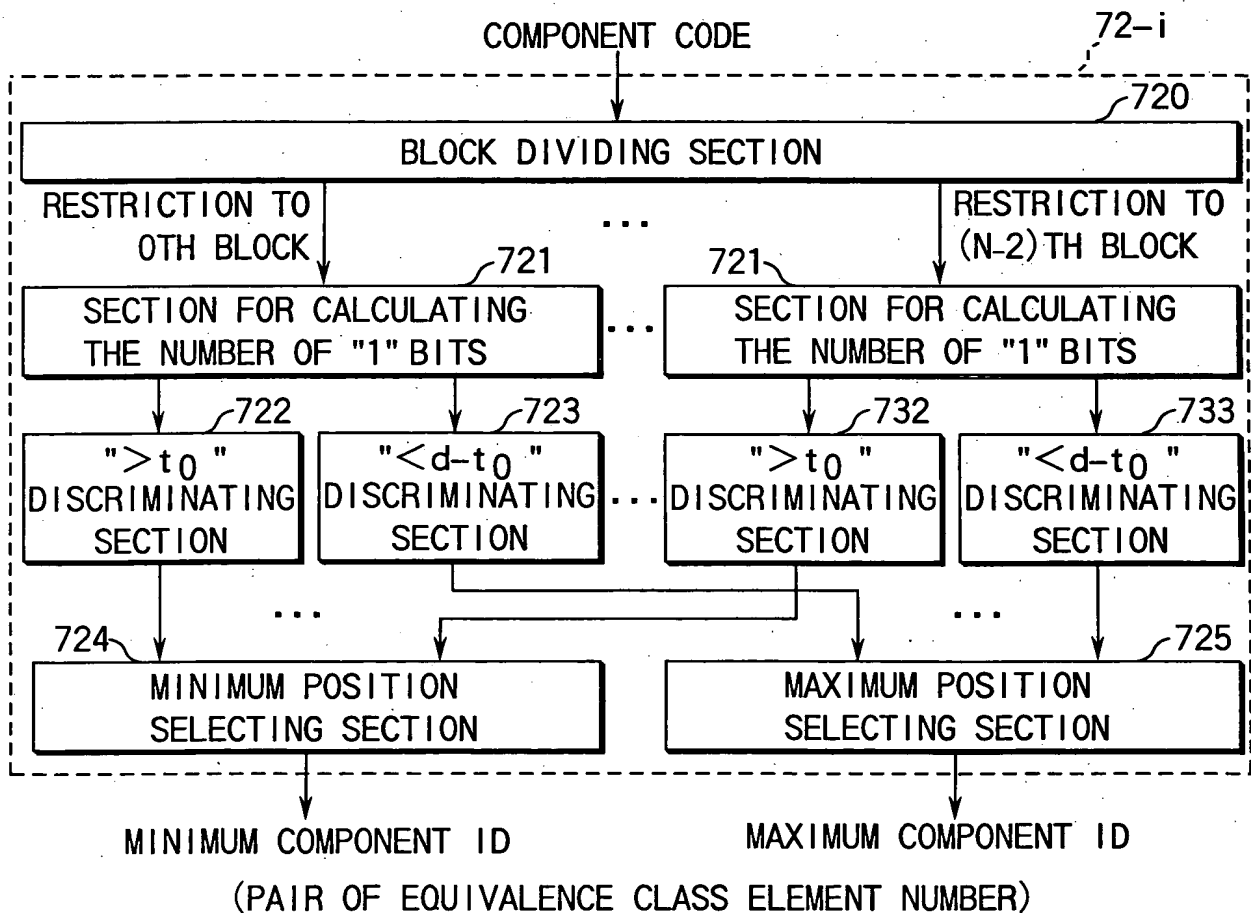
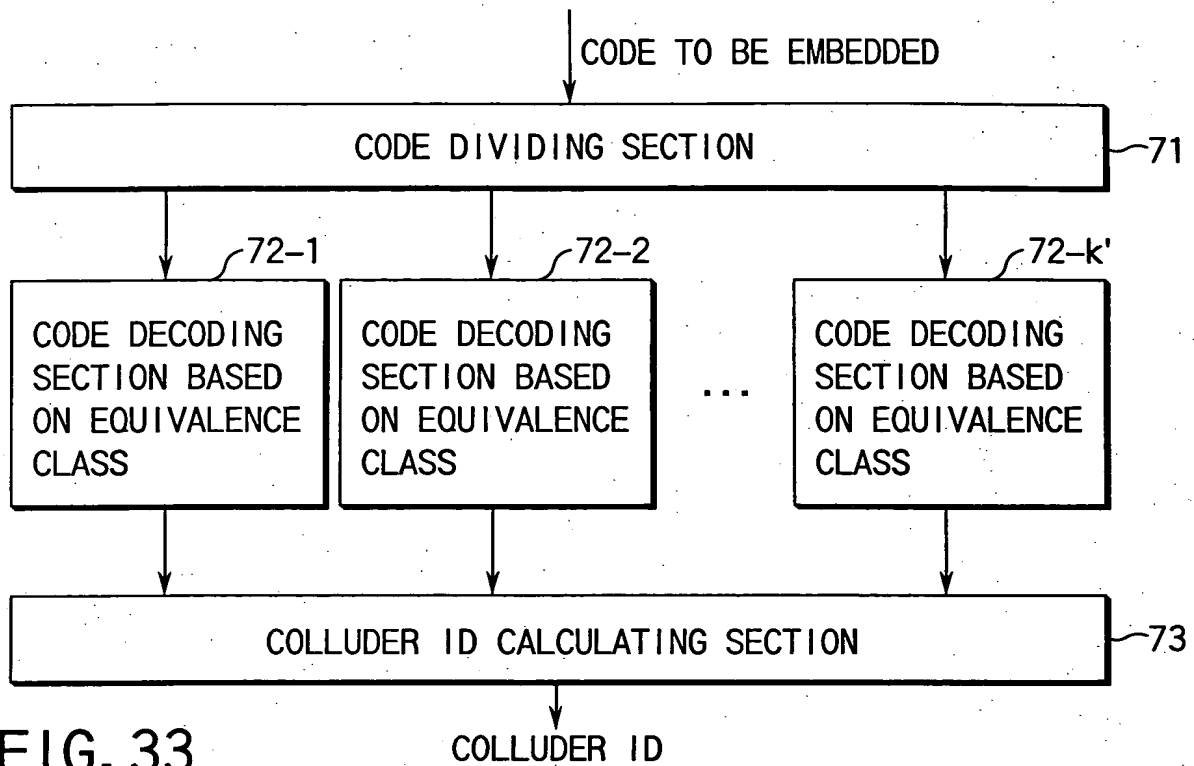


FIG. 32





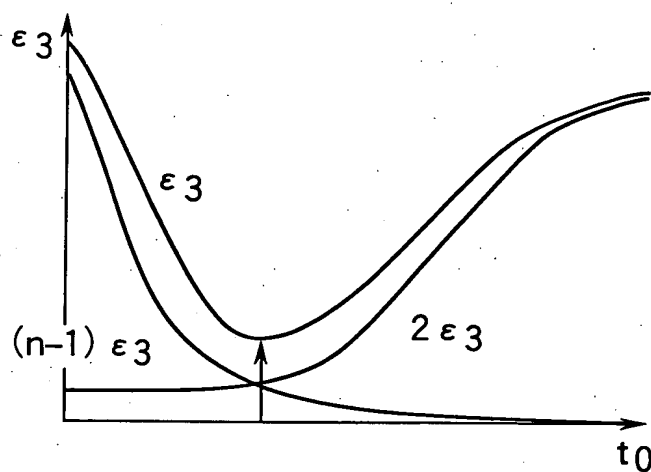


FIG. 35

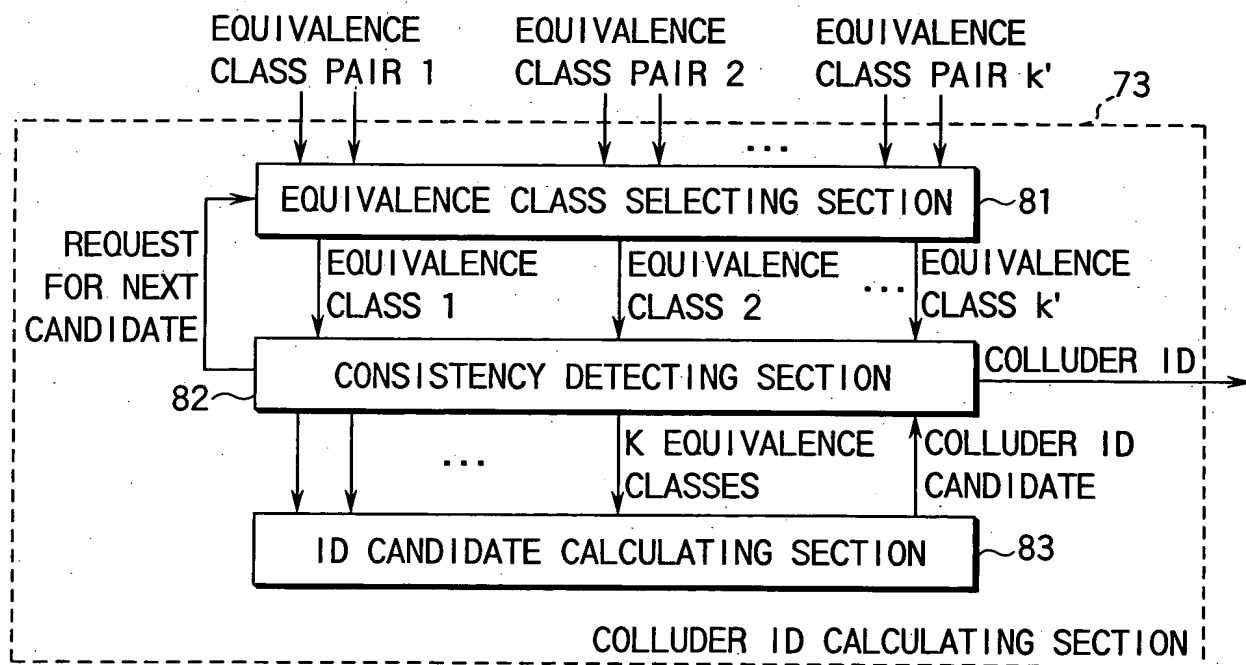


FIG. 36



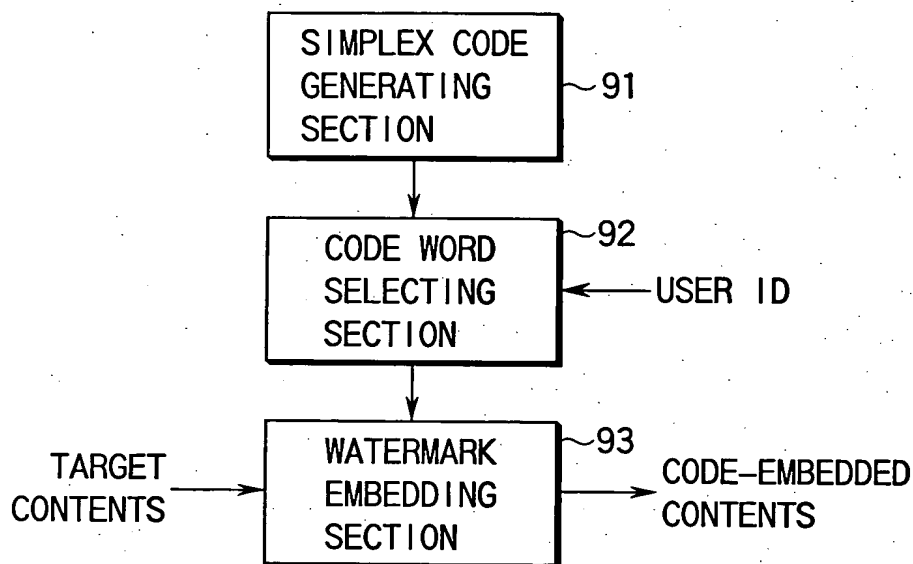


FIG. 37

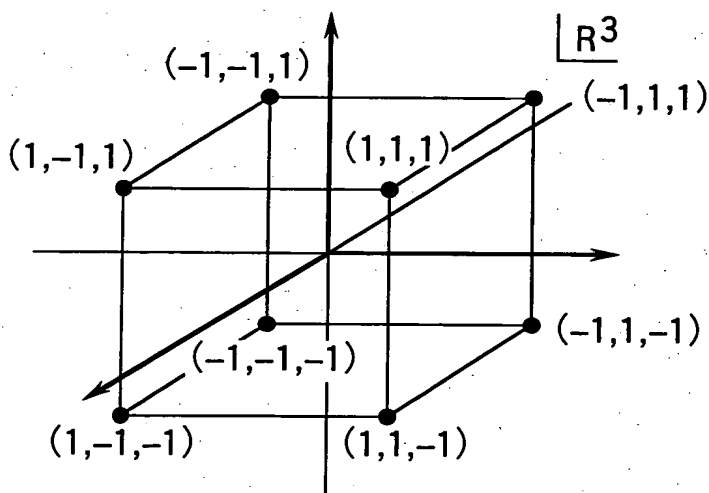


FIG. 38

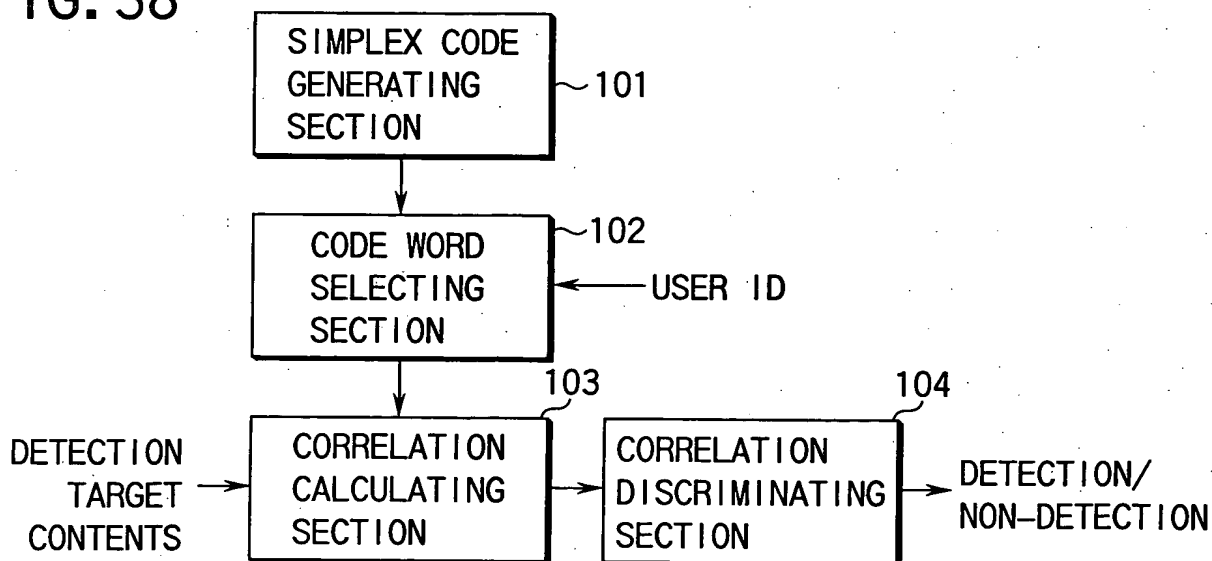


FIG. 39

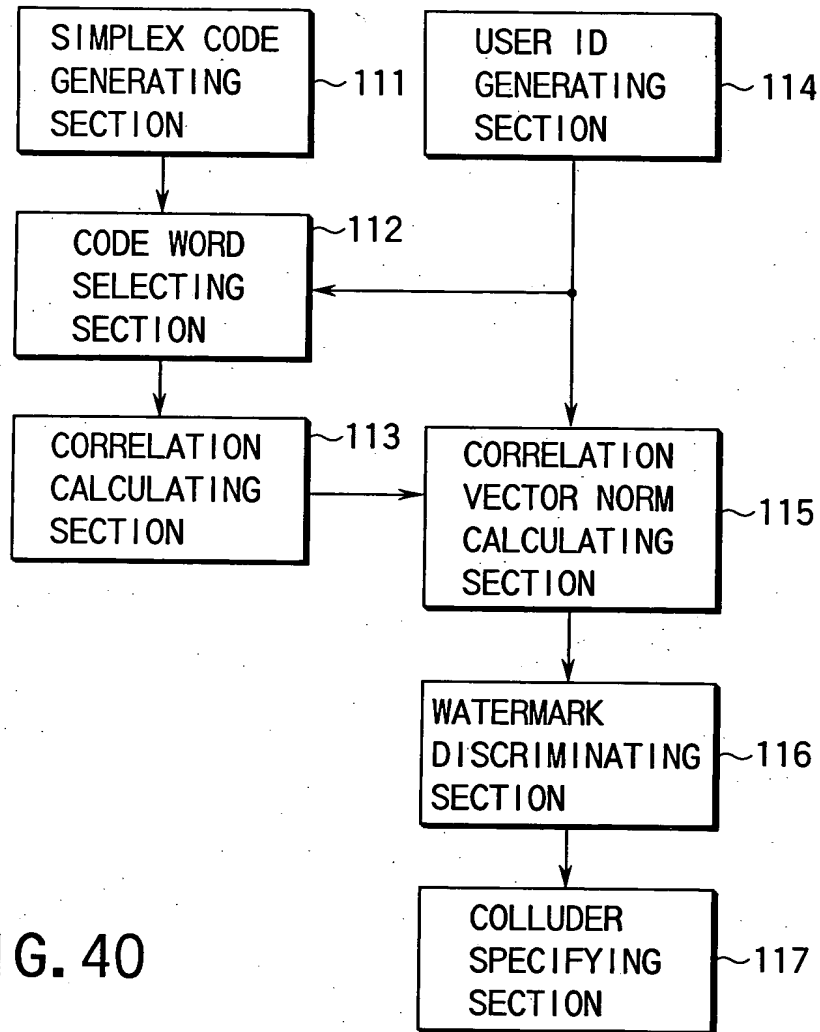


FIG. 40

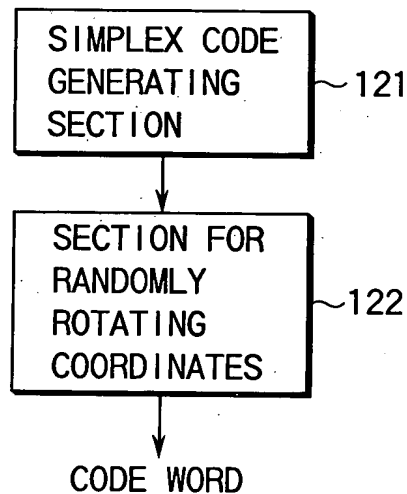


FIG. 41